

16114000 LIMAHULI STREAM NEAR WAINIHA

LOCATION.--Lat 22°13'15", long 159°34'48", Old Hawaiian Datum, Hydrologic Unit 20070000, on left bank 0.2 mi upstream from intersection with Kuhio Highway, and entrance to Haena State Park.

DRAINAGE AREA.--1.36 mi².

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorders and natural control. Elevation of gage is 200 ft above mean sea level, by altimeter.

REMARKS.--Records computed by Clayton Yoshida. Records good except for discharge above 200 cfs which are poor. Limahuli Gardens diverts water through a 4-inch pipe, upstream of station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 985 ft³/s, December 11, 2000, gage height, 5.24 ft; minimum, 3.4 ft³/s, September 27-30, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

	Time		Discharge (ft ³ /s)	Gage height (ft)		Time		Discharge (ft ³ /s)	Gage height (ft)
	Feb 13	1745	*450	*3.88		1030	392	3.68	

Minimum discharge, 3.3 ft³/s, Sept. 8, 27, 28, 29, 30, gage height, 0.35 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.7	5.4	4.4	10	6.3	11	4.5	3.6	3.6	3.8	3.6
2	4.0	4.6	9.4	5.1	6.8	5.3	5.9	4.4	3.6	3.6	3.7	3.5
3	4.1	5.6	5.8	4.3	5.8	5.0	5.3	4.3	3.6	3.8	3.7	3.6
4	4.1	4.7	5.0	4.1	5.4	4.8	12	4.2	4.0	3.9	3.7	3.6
5	4.2	4.4	4.7	3.9	5.0	4.6	6.5	4.2	4.1	3.7	3.6	3.7
6	4.2	4.3	26	3.8	29	5.9	5.7	4.2	3.8	3.7	3.6	3.6
7	4.1	4.2	10	3.8	9.4	5.7	5.1	4.5	3.7	3.7	3.6	3.7
8	4.1	4.2	6.5	3.8	6.5	5.4	14	4.1	3.7	3.8	3.8	3.7
9	4.0	4.1	5.5	3.6	5.5	4.6	15	4.0	3.5	3.7	3.8	3.6
10	4.0	4.0	5.1	8.9	5.0	4.3	35	4.7	3.8	3.8	3.8	3.5
11	4.1	7.0	4.9	13	4.9	4.0	39	4.2	3.5	3.7	3.8	3.6
12	4.2	4.5	5.0	5.9	20	3.9	103	4.0	3.7	3.6	3.8	3.6
13	4.2	22	5.4	4.9	130	3.8	15	6.7	3.6	3.6	3.9	3.6
14	4.2	22	5.2	4.6	45	3.7	8.0	5.7	3.5	3.6	3.7	3.7
15	4.2	62	4.6	15	15	15	6.4	4.6	3.5	3.6	3.6	3.6
16	4.2	31	4.6	6.4	8.5	12	5.8	4.2	4.2	3.7	3.6	3.5
17	4.2	15	4.6	5.2	6.8	6.4	7.0	4.4	3.8	3.6	3.6	3.5
18	4.2	10	7.5	6.1	5.9	5.1	6.8	8.6	3.9	3.6	3.6	3.5
19	4.2	7.7	5.1	11	5.3	4.7	6.5	5.7	4.0	3.7	3.7	3.5
20	4.1	6.7	4.7	8.7	5.9	4.4	7.8	4.7	4.2	5.0	3.6	3.5
21	4.1	5.7	4.4	5.9	6.5	4.3	6.7	4.3	3.8	4.4	4.1	3.6
22	4.1	5.2	4.3	5.1	7.0	4.1	15	4.1	3.9	3.7	3.9	3.6
23	4.0	4.9	5.1	4.7	5.8	4.0	10	3.9	4.6	3.7	6.3	3.5
24	4.0	4.6	4.3	8.9	15	4.0	8.5	3.8	3.9	3.6	4.0	3.5
25	4.4	4.6	4.2	6.5	7.3	3.9	7.4	3.8	3.7	3.9	3.7	3.5
26	4.2	4.5	4.2	5.0	6.6	3.8	6.1	3.8	3.7	6.3	3.6	3.5
27	4.1	4.2	5.9	4.6	5.6	7.1	5.3	3.7	3.9	4.8	3.6	3.4
28	8.9	22	8.3	4.4	7.0	5.0	5.0	3.6	3.8	4.1	3.6	3.4
29	10	17	5.9	10	---	4.3	4.7	3.6	3.8	3.8	4.2	3.4
30	5.5	7.1	5.0	29	---	6.4	4.5	3.6	3.6	3.8	3.8	3.4
31	5.5	---	4.5	37	---	7.7	---	3.6	---	3.8	3.6	---
TOTAL	141.5	312.5	191.1	247.6	396.5	169.5	394.0	137.7	114.0	120.9	118.4	106.5
MEAN	4.56	10.4	6.16	7.99	14.2	5.47	13.1	4.44	3.80	3.90	3.82	3.55
MAX	10	62	26	37	130	15	103	8.6	4.6	6.3	6.3	3.7
MIN	4.0	4.0	4.2	3.6	4.9	3.7	4.5	3.6	3.5	3.6	3.6	3.4
AC-FT	281	620	379	491	786	336	781	273	226	240	235	211

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2003, BY WATER YEAR (WY)

MEAN	6.67	9.32	10.7	9.95	9.16	7.63	13.2	9.19	6.86	7.13	6.77	6.19
MAX	9.62	12.5	14.5	23.8	14.2	15.7	32.6	22.4	12.2	9.28	9.84	9.32
(WY)	(1996)	(1996)	(2001)	(1997)	(2003)	(1997)	(1997)	(1997)	(1996)	(1998)	(1995)	(1996)
MIN	4.56	6.26	6.16	4.34	4.64	4.22	5.31	4.44	3.80	3.90	3.82	3.55
(WY)	(2003)	(2000)	(2003)	(2001)	(2000)	(2001)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)

HAWAII, ISLAND OF KAUAI

16114000 LIMAHULI STREAM NEAR WAINIHA—Continued

FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1995 - 2003

ANNUAL TOTAL	2,375.0 6.51	2,450.2 6.71	8.56
HIGHEST ANNUAL MEAN			
LOWEST ANNUAL MEAN			
HIGHEST DAILY MEAN	62	Nov 15	130
LOWEST DAILY MEAN	3.9	Jun 29	3.4
ANNUAL SEVEN-DAY MINIMUM	4.0	Aug 15	3.4
ANNUAL RUNOFF (AC-FT)	4,710		4,860
10 PERCENT EXCEEDS	11		9.6
50 PERCENT EXCEEDS	4.6		4.3
90 PERCENT EXCEEDS	4.1		3.6

